

**Lotte Chemical Titan TITANZEX<sup>®</sup> HM5000 High density polyethylene**

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

**Material Notes:**

HM5000 is a high density polyethylene for extrusion monofilament. HM5000 meets the U.S. Food and Drug Administration (FDA) criteria for food contact use as specified in 21 CFR 177.1520 (c) 3.1a & 3.2a Applications: Yarns Ropes Fishing nets Advantages: Excellent processability High stiffness High draw down capability Information provided by Titan Chemicals

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lotte-Chemical-Titan-TITANZEX-HM5000-High-density-polyethylene.php](http://www.lookpolymers.com/polymer_Lotte-Chemical-Titan-TITANZEX-HM5000-High-density-polyethylene.php)

Physical Properties	Metric	English	Comments
Base Resin Density	0.951 g/cc	0.0344 lb/in <sup>3</sup>	ASTM D1505
Environmental Stress Crack Resistance	30 hour	30 hour	F <sub>50</sub> ; ASTM D1693
Base Resin Melt Index	0.80 g/10 min	0.80 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM D2240
Tensile Strength at Break	38.2 MPa	5540 psi	ASTM D638
Tensile Strength, Yield	25.5 MPa	3700 psi	ASTM D638
Elongation at Break	>= 500 %	>= 500 %	ASTM D638
Flexural Stiffness	784.5 MPa	113800 psi	Olsen; ASTM D747
Izod Impact, Notched	1.96 J/cm	3.67 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	126 °C	259 °F	resin; ASTM D1525

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